





Considering the Pathology of Japanese Society and a Prescription Amidst the COVID-19 Pandemic

Aiming for a Society That Recognizes
Diversity as Strength





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The COVID-19 pandemic has recently brought the pathology of Japanese society to our attention. So far, the society has been based on economic rationality, but now it needs to make an unprecedented transformation. Many people are struggling and worried about the future. Facing such a situation, what is the best approach for us to take in life? Brain scientist Nobuko Nakano is far more than a typical researcher and is highly active in many different forms of media. CEO Nakamura had a chat with her to hear her views about the illness of Japanese society and the prescription to heal it.



Nakamura First, could you briefly explain what brain science is?

Nakano "Brain science" is a relatively new term. It used to be called cerebrophysiology or neuroscience.

These terms are still popular in academia today. The reason why cerebrophysiology became brain science can be found in the development of functional MRI (fMRI). fMRI is a method for visualizing brain activity based on changes in the MR



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signal caused by increased blood flow. The emergence of fMRI allowed for the brain to be mapped at a macro-level perspective with a time course that is easier to observe than with PET. This led to the popularization of the term "brain science."

Nakamura So, with fMRI, people found the key to identify the connections between different functions in the brain. I am very interested in how brain science explains the relationship between the brain and the heart. It is obvious that my brain is in my head, but why is there the typical concept of "my heart" being somewhere inside my chest.

Nakano Just like how the word is based on the name for the actual organ, we tend to feel that our chest serves as the center of our emotions, not our brain. I believe this is true for people all around the world. However, if we look for the source of our emotions, we end up at the frontal lobe of the brain. This separation has sparked a long-running debate. The problem of the heart and brain may be the final frontier.

Nakamura I am also interested in the sensory organs. The eyes, ears, taste buds, and other organs are all linked to the brain, but we do not yet understand everything. What kinds of research methods are being implemented in this area?

Nakano There is the molecular approach, and there is macro-level mapping using fMRI. With fMRI, we basically examine blood flow. Here, the bottleneck is that we do not know the exact degree to which the data reflects nerve activity.

Crowd psychology and the science of groups

Nakamura Which field are you most interested in now?

Nakano I have always been fascinated by crowd psychology. Many people believe that decisions are made entirely by individuals, but it is almost impossible for someone to decide on things using solely their own mind. People always consider the wishes of others and are affected by the information around them. For example, they might consider what the people in front of them are thinking, or they may consider how other people who are not present could feel later even if they are not feeling in such a way now. In the terminology of psychology, we would say that people cannot ignore the thoughts of the reference group when making decisions. We can find interesting qualities by examining art in order to quantify and clarify these characteristics.

Nakamura And now the topic turns to

Nakano The way artwork prices are decided is extremely interesting. There are many parameters involved, such as the value a piece of work holds as art (which is fundamentally difficult to put a price on) and the market's evaluation. However, art has a quality whereby the price rises if everyone thinks it is good. I thought that this would be a good model for studying crowd psychology, so I am working to analyze the market. Nakamura The science of animal groups such as grey starlings and fish is related to the study of decision making in groups. For example, we might look at the movements of a group of grey starlings in flight. When one bird changes direction quickly following an attack from an outside enemy, the other birds instantly follow. On the other hand, it is thought that birds fly as a group, and there is no particular leader. If we consider a group of humans to be like a herd of animals, it could be very interesting to study the differences in behavioral characteristics between highly productive groups and non-productive groups. As humans can only ever exist in groups, it is crucial to



consider the entire group when trying to understand an individual's decision-making process.

Nakano You are right. Homo sapiens have a considerably strong but imperfect social nature, though not perhaps as strong as that of bees or ants. It would be truly fascinating if we could, to some extent, clarify the true form of humans' imperfect social nature. For example, in thermodynamics there is a concept called phase transition. If a super cooled liquid is stimulated even slightly, it instantly solidifies. It is thought that certain triggers may cause human groups to experience sudden changes in the manner of this phase transition. I hope to formulate this process.

Reconsidering the true nature of wealth amidst the COVID-19 pandemic

Nakamura COVID-19 has cast a dark shadow over society as a whole, and many people are suffering. We can only hope to give some kind of trigger that can brighten things.

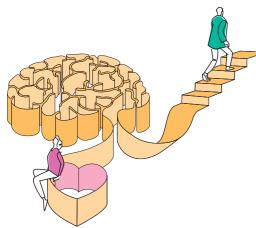
Nakano, This is a critical topic. The

Nakano This is a critical topic. The number of suicides has increased considerably, particularly among women. Cases have almost doubled compared to last year for women. I think the Japanese government enacted the "Go To" campaigns because economic difficulty has served as one contributing factor to the suicides. However, these campaigns have not worked well due to the risk of spreading the infection.

spreading the infection. Nakamura A few days ago, I spoke with my eldest son and his friends, who graduated from an international school. They commented that no one in their circle of friends felt as if they were being pushed into a corner mentally. I wondered why this was, and theorized that it may be related to the fact that they were raised in a highly international, diverse environment and have a broad range of experience. Nakano I think that is a significant factor. Within a homogeneous society, people tend to think that other people enjoy unfair advantages. When people start to think in this way, they end up turning that mindset back onto themselves. They think that because they look at other people in such a way, other people must be seeing







them in the same way, too. They then try to avoid being thought of in such a way by others, and they suppress themselves to a severe degree, ultimately exhausting themselves physically and mentally.

Nakamura We need a system to help such people. I think that a truly wealthy society is the one that better recognizes diversity, that enables people to have fun without spending

money, and that accepts things that

may appear to be nerdy.

Nakano The same goes for art as well. I believe the phrase "He who does not work, neither shall he eat" is at the root of the pathology of Japanese society. Some people may not seem like they are working now, but their actions may prove useful 30 years hence. Similarly, art may not help us stay alive tomorrow, but it may be needed to help us survive three years thereafter. Nakamura Yes, that's right. Some artists that are famous today were not recognized in their lifetimes. However, I think the instinctual desire to draw and to express oneself is truly human. I believe that modern-day Japan can create a basic safety net to support such people.

Nakano On the other hand, it is true that many people will experience emotional discomfort in a diverse environment. Many people feel comfort in a monolithic environment, so we currently need education that functions as a phase transition toward a mindset whereby wealth is achieved by nurturing different opinions.

Nakamura There is a limit to what an educational curriculum based on government guidelines can do. Perhaps art could give us hints for a new direction.

Nakano New York's Museum of Modern Art has developed an educational curriculum called Visual Thinking Strategies (VTS). This involves showing children pictures and asking them what they personally think about the pictures, rather than asking who made the pictures and when.

Amazingly, data shows that this approach improved the children's grades. The reason for this result is that children can learn that everyone has different ways of thinking, that this is

not a bad thing, and that there is actually value in such differences. This is thought to enhance children's self-esteem and to contribute to an autonomous desire for emergent learning. This cannot be graded in a uniform manner, so it imposes a larger burden upon educators. In practical terms, this approach can only be achieved with sufficient resources, but it serves as a lifelong asset for children. I hope that such a curriculum will be spread in Japan as well. Nakamura We need to place importance on looking at, thinking about, and sensing things. It is crucial to take children to many different places and give them a wide range of experiences.

Breaking free from a pathological society

Nakamura Among the changes to work styles that the COVID-19 pandemic has brought about, I have

personally come to appreciate the importance of the "park effect" on companies. We can relax and have our imaginations and competitiveness invigorated simply by sharing snacks together and talking where we can see each other's faces, without needing to do much else. I have come to feel how important these kinds of effects are.

Nakano That is an interesting

observation. Though it is

economically rational to

eliminate costly offices and

communicate in virtual spaces, in the end we need this fundamental element.

Nakamura If companies make a place like a park, however small it may be, this can create networks that cross work boundaries and produce creative ideas.

Nakano Research institutes abroad create spaces like that. There is a break of about two hours for snacks, letting "research nerds" come together from different areas to exchange ideas, which helps create interesting new fields.

Nakamura I am currently preparing to make such a space when the pandemic is over. I have also rediscovered the importance of festivals.

Nakano While the reasons for this have

not been clarified yet, if people experience difficulties because festivals are not held, they tend to seek some kind of sacrifice. I feel that many people are troubled from losing the structure of festivals that have been practiced since ancient times. People attempt to obtain relief by putting others on a pedestal and attacking them. If they find an individual who does not follow the rules, everyone starts to pounce on them. It is truly bizarre. Nobody wants to be under attack, and this thought leads to a vicious circle that makes people even more troubled. As a result, society today is in an extremely pathological state.

Nakamura Japan was originally a country where people coexisted with different things, rather than rejecting them. Mixed bathing at hot springs is a typical example of this. It is of course wrong to bring trouble to others or to cause problems. However, if there was not such a fixation on rules, we would have a more tolerant culture, yet this

tolerance has become narrow.

Nakano Yes, there are people who see keeping the rules to be part of their identity. It may be tough to revert to a previous state once rules have been established.

Nakamura Rules are important, but manners and etiquette are even more crucial. It's not right to coerce people to obey the rules simply because there are rules, thus ignoring manners and etiquette.

Nakano We need to remember that the original purpose of creating rules is to avoid making others feel unpleasant.

Create incentives for activities that enhance beauty

Nakamura You mentioned economic rationality earlier. What do you think is needed for management activities going forward?

Nakano I feel that beauty will serve as a key concept. Acting in a beautiful way works as an incentive in and of itself. It would be ideal to demonstrate the benefits in an easy-to-understand way, such as how people are healthier and live longer or how organizations can develop if they prioritize beauty. The economic models of the 20th century have reached their limits, and we can now see the cracks in a society that only pursues economic rationality. When I consider which parameters we should add when redesigning the economy, I think we should give more value to elements like beauty and the desire to be with a certain person or to be satisfied. There is a need to build an economic model that incorporates



these utility functions. Encouraging people to engage in beautiful behavior in their workplaces will aid society. Nakamura We need to achieve a system that can value things that are interesting in their differences instead of economic rationality only, as well as nerdy qualities and beauty as you just mentioned. Considering environmental problems on a global scale, I cannot help but feel we have entered an age of coexistence that goes beyond living with nature and includes robots, AI, and other animals and plants. Going forward, there will be a greater need than ever before for diverse thinking and future-oriented social design. Finally, I would like to mention that I attended high school and college with your father-in-law, so I have known you for a long time. I have often seen you in the media, and I can see that you are very successful. It was a pleasure to speak with you today as a scientist. Thank you for taking the time to talk

